CS 445 The Relational Model

Chapter 3

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1

Relational Model

- Read Chapter 3
- The database is a collection of *relations*
 - each relation is a table
- Data Definition Language
 - subset of SQL
- Integrity constraints
- Views

Relation

- Relation schema
 - example:
- Relation instance
 - set of {tuples|records|rows}

- Relational database
 - Relational database schema
 - Relational database instance

Translation

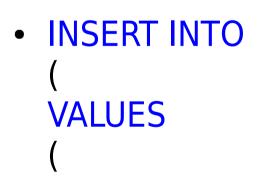
- Translate E-R diagram to Relational Model
 - E-R Diagram to SQL!
 - must represent:

Create a relation

PRIMARY KEY (

- SQL
- CREATE TABLE

CONSTRAINT)Type=INNODB;



);

Unique

• CREATE TABLE

CONSTRAINT UNIQUE (

);

Key References

• CREATE TABLE



),